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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/673,030	09/26/2003		Yimin Zhao	U 014832-9	8043
140	7590	08/26/2004		EXAMINER	
LADAS &		-	PESELEV, ELLI		
26 WEST 61ST STREET NEW YORK, NY 10023				ART UNIT	PAPER NUMBER
	•			1623	
			DATE MAILED: 08/26/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/673,030	ZHAO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Elli Peselev	1623				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
2a)☐ This action is FINAL . 2b)⊠ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ⊠ Claim(s) 1-13 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) ☒ Claim(s) 1-13 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Dal 5) Notice of Informal Pa 6) Other:	e				

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The disclosure is objected to because of the following informalities: page 1 of the specification fails to set forth continuation data.

Appropriate correction is required.

Claims 6, 7 and 10-13 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Claims 6 and 10-12 are directed to compositions for the treatment of diseases or symptoms related to 5HT1a receptor, including depression, anxiety. Alzeheimer"s disease, drug or alcohol dependence, sleep disorders or panic state. Claims 7 and 13 are directed to compositions for protection of neuron cells, including delaying senility, improving learning and memory and preventing and treating neuron cell damages caused by various kinds of cerebral damages. The data presented on pages 8-14 of the specification is directed to the effect on activities of adenylate cyclase (AC) in rat cerebral cortex in vitro, protection effect on PC-12 cells damaged by corticosterone in vitro, forced swimming test and a 5HT1a receptor test. The compound tested is the compound of Formula I wherein R1, R2, R3 and R4 are all hydrogens. There is no direct correlation between the tests presented and the treatment of any specific diseases encompassed by the instant claims. There is no data indicating that the claimed compositions are effective in the treatment of diseases encompassed by the claimed compositions, no teaching of the mode of administration or the dosages used for any treatment. Note that the treatment of various diseases encompassed by

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the instant claims is highly unpredictable and there is a good reason to doubt that the claimed compositions are useful for all the diseases encompassed by the instant claims based on the limited in vitro data set forth in the specification.

Claims 1, 8 and 10-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The terminology "and pharmaceutically acceptable salts thereof" (claim 1) is an improper markush terminology. Such terminology as "or a pharmaceutically acceptable salt thereof" can be used to overcome the rejection.

It is not clear what is encompassed by the term "etc" (claims 8, 12 and 13).

Claims 10-11 provide for the use of compound of formula I, but, since the claims do not set forth any steps involved in the method/process, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced.

Claims 10-11 are rejected under 35 U.S.C. 101 because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example *Ex parte Dunki*, 153 USPQ 678 (Bd.App. 1967) and *Clinical Products, Ltd.* v. *Brenner*, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

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Claims 1-4 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claims 1-4 are directed to product of nature as admitted by applicant on page 2 of the specification.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by applicant's admittance on page 2 of the specification.

Applicant admits on page 2 of the specification that the claimed compound is a product of nature in that it is contained in glandless cottonseeds.

Claims 1-4 are rejected under 35 U.S.C. 102(a) as being anticipated by Chinese Patent No. 128896.

The Chinese patent discloses the claimed compound.

Claims 1-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Li et al (Chinese Journal of Pharmacology and Toxicology, 14(2) (2000), pp 125-127).

Li et al disclose the claimed compound.

Claims 1-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over the Chinese Patent No. 128896 or Li et al (Chinese Journal of Pharmacology and Toxicology, 14(2) (2000), pp. 125-127).

The Chinese Patent and Li et al disclose the claimed compound but do not disclose said compound in combination with various carriers. However, a claim to a composition containing an old chemical compound and solvent for compound is not patentable. Recital of solvent is unpatentable limitation. The effective ingredient, chemical compound, is still old and that it is carried by a solvent or diluent does not change the effective character of the compound.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elli Peselev whose telephone number is (571) 272-0659. The examiner can normally be reached on 9.00-5.30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Wilson can be reached on (571) 272-0661. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Elli Peselev

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GROUP 1800

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